

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of the claims:**

1. **(Original)** A code generating system, comprising:
  - a compiler that receives source code and generates an object file comprising object code and intermediate code;
  - a code optimizer coupled to the compiler; and
  - a linker that receives the object file comprising object code and intermediate code and provides the intermediate code to the code optimizer.
2. **(Original)** The code generating system of claim 1 wherein the code optimizer produces optimized intermediate code that has been processed by a optimization algorithm.
3. **(Original)** The code generating system of claim 1 wherein the linker produces executable code.
4. **(Original)** The code generating system of claim 1 wherein the linker sends only portions of the intermediate code to the code optimizer.
5. **(Original)** The code generating system of claim 1 wherein the intermediate code generated by the compiler is stored in non-volatile memory.
6. **(Original)** The code generating system of claim 1 wherein the intermediate code generated by the compiler is stored in a magnetic storage device.
7. **(Original)** The code generating system of claim 1 wherein the object files comprising object code and intermediate code may comprise a library.

8. **(Original)** A method to optimize a program consisting of a plurality of source files, the method comprising:

producing intermediate code associated with one or more of the plurality of source files;

producing object code associated with one or more of the plurality of source files;

merging the intermediate code and the object code associated with each source file into an object file comprising object code plus intermediate code; and

optimizing the program by providing the intermediate code in the object file to a code optimizer.

9. **(Original)** The method of claim 8 wherein the producing intermediate code further comprises storing the intermediate code into a magnetic storage device.

10. **(Original)** The method of claim 8 wherein the producing intermediate code further comprises storing the intermediate code in non-volatile memory.

11. **(Original)** The method of claim 8 wherein optimizing the program further comprises receiving optimized intermediate code from the code optimizer and producing optimized executable code.

12. **(Original)** A storage medium containing instructions that are executed by a processor and comprising:

instructions that produce intermediate code from one or more source files;

instructions that produce object code from one or more source files;

instructions that merge the intermediate code and the object code associated with one of the source files into a single intermediate plus object code file; and

instructions that provide the intermediate code contained in the single intermediate plus object code file to a code optimizer.

13. **(Original)** The storage medium of claim 12 wherein the instructions that produce intermediate code further comprises instruction for storing the intermediate code into a magnetic storage device.

14. **(Original)** The storage medium of claim 12 wherein the instructions that produce intermediate code further comprises instruction for storing the intermediate code in non-volatile memory.

15. **(Original)** The storage medium of claim 12 wherein the instructions that produce intermediate code to a code optimizer further comprises instructions for producing optimized object code.

16. **(Original)** A computer system, comprising:

a processor,

memory coupled to the processor;

a code generating system stored in the memory and executable on the processor  
and that produces intermediate code and object code that is stored into a  
single intermediate plus object code file and provided to a code optimizer.

17. **(Original)** The computer system of claim 16 wherein the intermediate code produced by the code generating system is stored into a magnetic storage device.

18. **(Original)** The computer system of claim 16 wherein the intermediate code produced by the code generating system is stored into non-volatile memory.